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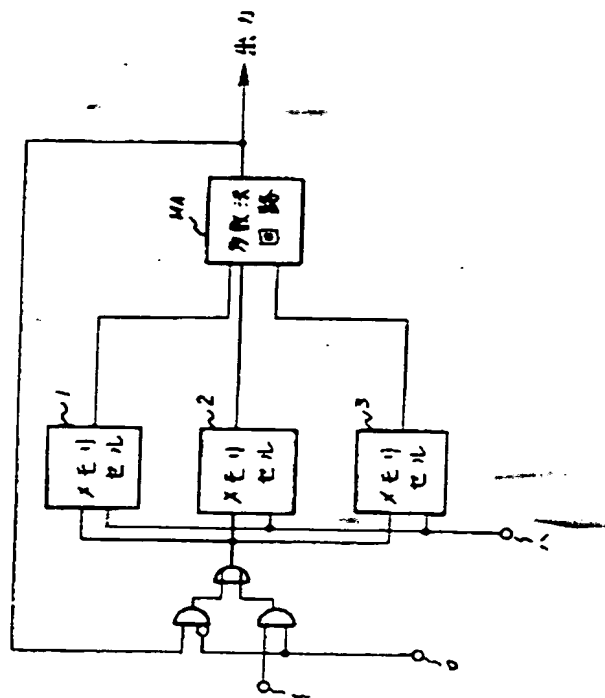
APPLICATION DATE : 17-12-81
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TITLE : PROTECTING SYSTEM OF MEMORY CONTENTS



ABSTRACT : PURPOSE: To realize a protecting system of memory contents which corrects the memory contents if a part of them is lost and can protect the storage information, by using ≥ 3 cells to the information of a bit for a memory device.

CONSTITUTION: When the data are written to memory cells 1-3, the data, the writing signal and the writing command signal are applied to the terminals (a), (b) and (c) respectively. When the data are delivered to outside, the majority is decided by a majority circuit MA for the outputs of the cells 1-3. At the same time, the refresh signal and the writing control signal are applied to the terminals (b) and (c) respectively at an optional time, and therefore the output of the circuit MA is applied to the cells 1-3 for refreshment. In this diagram, the refreshment is possible regardless of the contents of memories. It is also possible to change the contents of the memories only in case the result of the majority is different from the contents of memories.

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